

CLAIMS

- 5 1. A method for serving a page, comprising the steps of:
generating an object having a method for performing a given task ;
at translation time:
replacing a tag in a document object model (DOM) with a
script; and
processing the DOM to generate executable code having a call
that is generated as a result of the script; and
10 at request time, having the call invoke the method in the object.
- 15 2. The method as described in Claim 1 wherein the object is a custom
tagbean.
- 15 3. The method as described in Claim 1 wherein the executable code is a
servlet.
- 20 4. The method as described in Claim 3 wherein the call is a line of code
in the servlet.
- 20 5. The method as described in Claim 1 wherein access to the servlet is
unrestricted and access to the object is restricted.
- 25 6. The method as described in Claim 1 wherein the object include
error-handling code.
- 25 7. The method as described in Claim 1 further including the steps of:
processing a given file into XML compliant code; and
translating the XML compliant code into the DOM.
- 30 8. The method as described in Claim 1 wherein the DOM is a tree having
the tag located at a given node.
- 35 9. The method as described in Claim 1 wherein the tag is a marker for
initiating invocation of a tag handler.
- 35 10. The method as described in Claim 9 wherein the tag handler performs
a macro substitution.
- 40 11. The method as described in Claim 9 wherein the tag handler performs
an algorithmic reorganization of the DOM.

12. A method for serving a web page, comprising the steps of:

in an off-line process, generating an custom tagbean having a method for performing a given task ;

5 at translation time:

generating a document object model (DOM) tree representation of the page, replacing a custom tag in the DOM tree with a script; and

processing the DOM tree to generate a servlet having a call generated as a result of the script; and

10 at request time, having the call invoke the method in the custom tagbean.

13. The method as described in Claim 12 further including the steps of:

processing a given file into XML compliant code; and

15 translating the XML compliant code to generate the DOM tree.

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14. A method for reducing an amount of code in a custom tagbean, comprising the steps of:

isolating a given task in an object having a method;
at translation time;

replacing a tag in a document object model (DOM) with a script; and

processing the DOM to generate executable code having a call that is generated as a result of the script; and

at request time, having the call invoke the method in the object.

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15. A computer program product, comprising:

a custom tagbean having a method for performing a given task;

5 means operative at translation time (a) for replacing a tag in a document object model (DOM) with a script; and (b) processing the DOM to generate executable code having a call that is generated as a result of the script;

wherein, at request time, the call invokes the method in the custom tagbean to perform the given task.

10 16. The computer program product as described in Claim 15 wherein the means operative at translation time further includes means for processing a given flat file into XML compliant code, and means for translating the XML compliant code to generate the DOM.

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17. A server, comprising:
- a processor;
- memory coupled to the processor for storing an object having a method for
- 5 performing a given task;
- program means executable by the processor and operative at translation time
- (a) for processing a given flat file into XML compliant code, (b) for translating the
- XML compliant code to a Document Object Model (DOM) tree, (c) for replacing a
- 10 custom tag in the DOM tree with a script, and (d) for processing the DOM tree to
- generate executable code having a call that is generated as a result of the script;
- wherein, at request time, the call invokes the method in the object to perform
- the given task.
18. The server as described in Claim 17 wherein the executable code is a
- 15 Java servlet.
19. The server as described in Claim 17 wherein the program means
- further includes means for compiling and class loading the Java servlet.
20. The server as described in Claim 17 wherein the object is a custom
- 20 tagbean.

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